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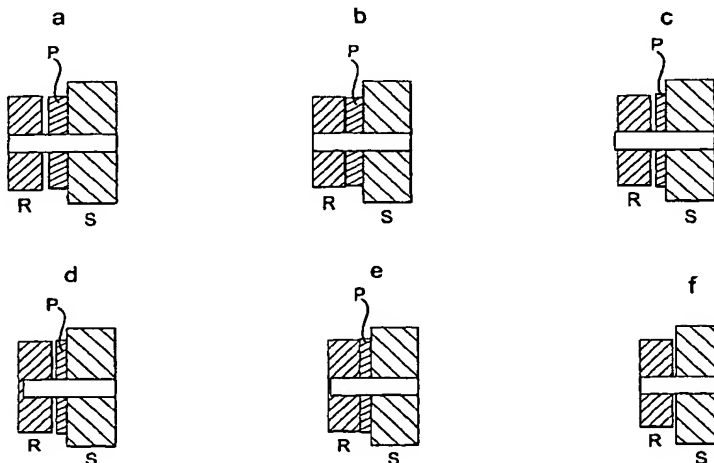
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(54) Title: IMPROVEMENTS IN DRY PUMPS



(57) Abstract: A dry pump apparatus comprises; a pumping mechanism, a controller for controlling the operation of the pumping mechanism, and a sensor for sensing the operating temperature of the pumping mechanism. The controller is configured to carry out an automated shutdown sequence involving the following steps; a) ceasing operation of the pumping mechanism b) monitoring the temperature of the pumping mechanism by means of the temperature sensor c) at least one pre-selected temperature interval, initiating operation of the pumping mechanism for a fixed time period so as to purge a proportion of contaminant particulate matter present until a predefined temperature is reached or a predefined time limit has passed. By carrying out these steps the incidence of powder compaction between component parts of the apparatus which may contract during shutdown, and consequential restart failure and down time, can be significantly reduced.

WO 2004/038222 A1